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UniGene Cluster Hs.323949 *Homo sapiens*

**KAI1 Kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4))**

#### SEE ALSO

**LocusLink:** [3732](#)

**OMIM:** [600623](#)

**HomoloGene:** [Hs.323949](#)

#### SELECTED MODEL ORGANISM PROTEIN SIMILARITIES organism, protein and percent identity and length of aligned region

***H.sapiens:*** [sp:P27701](#) - CD82\_HUMAN **100 % / 266 aa**  
**CD82** antigen (Inducible membrane protein R2) (C33 antigen) (IA4) (Metastasis suppressor K)

(see [ProtEST](#) )

***M.musculus:*** [pir:I49561](#) - I49561 C33/R2/IA4 - mouse **76 % / 266 aa**  
(see [ProtEST](#) )

***R.norvegicus:*** [ref:NP\\_113985.1](#) - kangai 1 (suppression of tumorigenicity 6), prostate [Rattus norvegicus] **76 % / 266 aa**  
(see [ProtEST](#) )

***C.elegans:*** [ref:NP\\_510445.1](#) - tetraspanin [Caenorhabditis elegans] **27 % / 252 aa**  
(see [ProtEST](#) )

***D.melanogaster:*** [ref:NP\\_523985.1](#) - Tetraspanin 66E [Drosophila melanogaster] **29 % / 244 aa**  
(see [ProtEST](#) )

## MAPPING INFORMATION

**Chromosome:** 11

**OMIM Gene Map:** [11p11.2](#)

**UniSTS entries:** [sts-X53795](#) Genomic Context: [Map View](#)

**UniSTS entries:** [sts-X53795](#) Genomic Context: [Map View](#)

## EXPRESSION INFORMATION

**Note:** Highly represented (2.4 pct) in library [7914](#)  
[EN0091](#)

**cDNA sources:** adenocarcinoma cell line ;normal epithelium ;metastatic melanoma to bowel ;lymph ;adenocarcinoma ;uterus ;rhabdomyosarcoma ;myeloid cells, 18 pooled CML cases, BCR/ABL rearrangement positive, includes both chronic phase and myeloid blast crisis ;epithelioid carcinoma ;colon ;Hypothalamus ;oligodendrogloma ;cord blood ;primary B-cells from tonsils (cell line) ;marrow ;follicular carcinoma ;malignant melanoma, metastatic to lymph node ;poorly-differentiated endometrial adenocarcinoma, 2 pooled tumors ;squamous cell carcinoma ;prostate ;uterus\_tumor ;whole embryo, mainly head ;anaplastic oligodendrogloma with 1p/19q loss ;schizophrenic brain S-11 frontal lobe ;glioblastoma with EGFR amplification ;squamous cell carcinoma from base of tongue ;lung\_normal ;tumor, 5 pooled (see description) ;placenta ;kidney ;hypernephroma, cell line ;nasopharyngeal carcinoma ;poorly differentiated adenocarcinoma with signet ring cell features ;melanocyte ;renal cell adenocarcinoma ;Purified pancreatic islet ;anaplastic oligodendrogloma ;skin ;melanotic melanoma, high MDR (cell line) ;hippocampus ;brain ;head\_normal ;pooled pancreas and spleen ;Islets of Langerhans ;melanotic melanoma ;Ascites ;serous papillary carcinoma, high grade, 2 pooled tumors ;myeloma ;head\_neck ;leukocyte ;human skeletal muscle ;Lung Focal Fibrosis ;Fibrosarcoma ;lymphoma, cell line ;hypernephroma ;normal pigmented retinal epithelium ;melanotic melanoma, cell line ;adrenal cortex carcinoma, cell line ;spleen ;amelanotic melanoma, cell line ;astrocytoma ;lung ;breast ;ductal carcinoma, cell line ;glioblastoma with probably TP53 mutation and without EGFR amplification ;adenocarcinoma, cell line ;tumor ;mixed (pool of 40 RNAs) ;Alveolar Macrophage ;umbilical vein ;ovarian tumor ;stomach ;liposarcoma ;invasive tumor (cell line)

Links View in map**mRNA SEQUENCES (5)**

NM\_002231 Homo sapiens **kangai 1** (suppression of tumorigenicity 6, prostate; **CD82** antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4)) (KAI1), mRNA **P**

BC001821 Homo sapiens, Similar to **kangai 1** (suppression of tumorigenicity 6, prostate; **CD82** antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4)), clone MGC:3696 IMAGE:2959683, mRNA, complete cds **PA**

BC000726 Homo sapiens, **kangai 1** (suppression of tumorigenicity 6, prostate; **CD82** antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4)), clone MGC:1713 IMAGE:2959683, mRNA, complete cds **PA**

U20770 Human metastasis suppressor (KAI1) mRNA, complete cds **P**

S48196 C33 antigen-type III integral membrane protein [human, T cell line MOLT-4, mRNA, 1624 nt] **PA**

**EST SEQUENCES (10 of 229)** [Show all ESTs]

BG468969 cDNA clone adenocarcinoma cell 5' read **P M**  
IMAGE:4645227 line

BE872332 cDNA clone adenocarcinoma 5' read **P M**  
IMAGE:3850411

BG545481 cDNA clone lung 5' read **P M**  
IMAGE:4700813

BG545505 cDNA clone lung 5' read **P M**  
IMAGE:4700915

BE871165 cDNA clone adenocarcinoma 5' read **P M**  
IMAGE:3852847

BE870989 cDNA clone adenocarcinoma 5' read **P M**  
IMAGE:3853226

BG569716 cDNA clone lung 5' read **P M**  
IMAGE:4717227

BG740864 cDNA clone skin 5' read **P M**  
IMAGE:4779061

BG741307 cDNA clone skin 5' read **P M**  
IMAGE:4779538

BE296864 cDNA clone rhabdomyosarcoma 5' read **P M**  
IMAGE:3532040

**Key to Symbols**

- P** Has similarity to known Proteins (after translation)
- A** Contains a poly-Adenylation signal
- M** Clone is putatively CDS-complete by MGC criteria

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# LocusLink

PubMed	Entrez	BLAST	OMIM	Taxonomy	Structure
Search <input type="text" value="LocusLink"/>	<input type="checkbox"/>	Display <input type="text" value="Brief"/>	<input type="checkbox"/>	Organism: <input type="text" value="All"/>	<input type="checkbox"/>
Query: <input type="text"/>			<input type="button" value="Go"/> <input type="button" value="Clear"/>		

View   One of 1 Loci

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Click to Display mRNA-Genomic Alignments (spanning 54165 bps)

PUB	OMIM	ACVIEW	UNIGENE	MSP	VAR	PROW	GDB
e!	UCSC	MGC					

### *Homo sapiens* Official Gene Symbol and Name (HGNC)

**KAI1: kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4))**

**LocusID:** 3732

### Overview

**RefSeq Summary:** This metastasis suppressor gene product is a membrane glycoprotein that is a member of the transmembrane 4 superfamily. Expression of this gene has been shown to be downregulated in tumor progression of human cancers and can be activated by p53 through a consensus binding sequence in the promoter. Its expression and that of p53 are strongly correlated, and the loss of expression of these two proteins is associated with poor survival for prostate cancer patients.

**Proteome Summary:** Member of the transmembrane 4 superfamily (TM4SF); functions as an activation antigen of T cells

**Locus Type:** gene with protein product, function known or inferred

**Product:** kangai 1

**Alternate Symbols:** R2, 4F9, C33, IA4, ST6, CD82, GR15, SAR2

**Alias:** CD82 antigen  
R2 leukocyte antigen  
suppressor of tumorigenicity 6

**Function**

**Phenotype:** Prostate cancer, susceptibility to